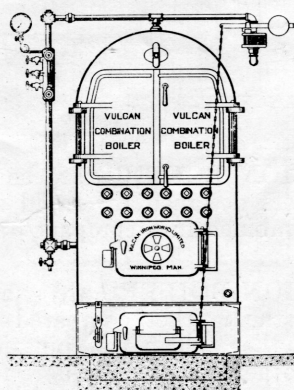


# VULCAN IRON WORKS LIMITED

ESTABLISHED 1874

## VULCAN



## COMBINATION HEATING BOILERS

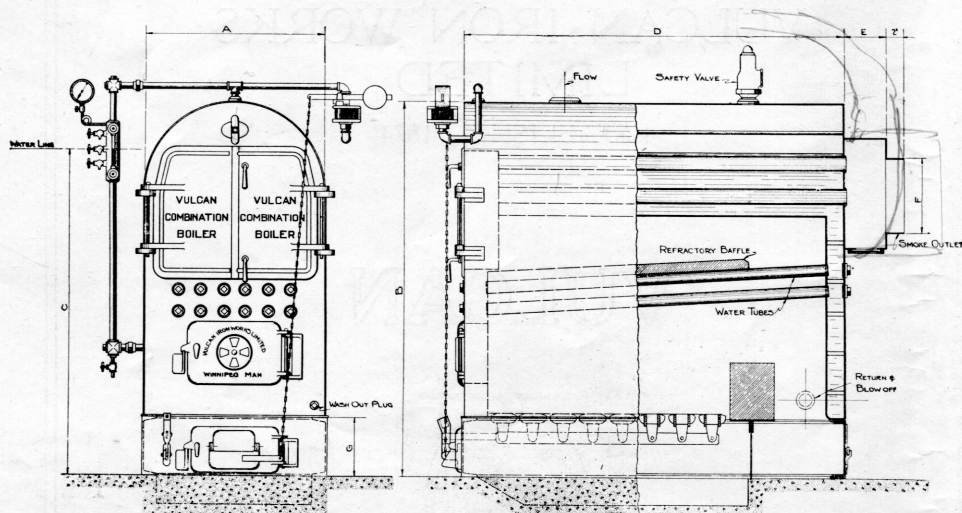
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## VULCAN COMBINATION BOILERS



VULCAN COMBINATION BOILERS are as named a combination Fire and Water-Tube Boilers designed for rapid steaming, efficient and economical operation, all combined in a compact unit taking up the minimum amount of space.

VULCAN COMBINATION BOILERS are guaranteed to be equal in capacity to any Boiler on the market compared on the square feet of Heating Surface basis, and the Vulcan Combination Boilers should only be compared with those of other makes on square feet of Heating Surface as the ratings in the table of sizes are purposely conservative. It makes for economy to have a boiler of ample capacity.

VULCAN COMBINATION BOILERS are manufactured to suit our customers' special requirements as to height of Setting, etc. The heights given in the table of sizes are the minimum recommended for economical combustion of soft coal.

VULCAN COMBINATION BOILERS are built to comply with the Canadian Interprovincial Regulations, and while Government Registered for 15 lbs. working pressure, are designed for 30 lbs., and tested to 60 lbs. pressure in our shops.

VULCAN COMBINATION BOILERS are constructed of Flange Quality Plate 55,000—65,000 lbs. per square inch tensile strength. All Seams and Stay-bolts Electric Welded. All Castings, including Grates, are of good quality Grey Iron and of rugged construction.

VULCAN COMBINATION BOILERS are furnished with Base, Grates, Safety Valve, Water Column piped to Boiler, Pressure Gauge, Gauge Cocks, Damper, and Automatic Damper Regulator, and Firing Tools.

No Fittings are supplied with Hot Water Boilers.



VULCAN COMBINATION BOILERS. Table of Sizes

Size No.	Heating Surface			Steam Radiation		Grate Area Sq. Ft.	Ship's Weight Lbs.	Dimensions								Return	Saf. Valve
	Sq. Ft.	Square Feet		Net	A			B	C	D	E	F	G	Flow			
		Gross	Net														
C 1	125	1500	1150	7.8	3900	33"	6'0"	5'3"	5'0"	8"	16"	12"	4"	2"	2"		
C 2	147	1750	1350	9	4400	33"	6'0"	5'3"	5'10"	8"	16"	12"	4"	2"	2 1/2"		
C 3	182	2200	1700	10	4900	36"	6'5"	5'7"	5'6"	8"	18"	12"	4"	2 1/2"	2 1/2"		
C 4	218	2600	2000	10	5500	36"	6'5"	5'7"	6'6"	8"	18"	12"	4"	2 1/2"	2 1/2"		
C 5	240	2900	2300	12	5700	42"	6'8"	5'10"	5'6"	9"	20"	12"	5"	3"	2 1/2"		
C 6	284	3400	2700	12	6200	42"	6'8"	5'10"	6'6"	9"	20"	12"	5"	3"	2 1/2"		
C 7	333	4000	3200	14	6700	48"	7'0"	6'2"	6'8"	9"	22"	12"	5"	3"	3"		
C 8	386	4600	3700	14	7300	48"	7'0"	6'2"	7'8"	9"	22"	12"	5"	3"	3"		
C 9	412	5000	4100	16	8900	54"	7'7"	6'6"	6'8"	10"	26"	12"	6"	3"	3"		
C 10	478	5750	4750	18	9800	54"	7'7"	6'6"	7'8"	10"	26"	12"	6"	3"	3"		
C 11	562	6750	5600	20.2	11500	60"	8'0"	6'11"	7'8"	12"	28"	12"	6"	3"	3 1/2"		
C 12	637	7600	6500	20.2	12300	60"	8'0"	6'11"	8'8"	12"	28"	12"	6"	3"	3 1/2"		
C 13	731	8750	7700	22	14600	66"	8'6"	7'1"	8'8"	12"	30"	12"	8"	4"	3 1/2"		
C 14	820	10000	9100	24	15800	66"	8'6"	7'1"	9'8"	12"	30"	12"	8"	4"	3 1/2"		
C 15	871	11000	10200	24.8	17200	72"	9'9"	8'4"	8'11"	12"	33"	13"	8"	4"	4"		
C 16	977	12000	11500	27.5	18700	72"	9'9"	8'4"	9'11"	12"	33"	13"	8"	4"	4"		
C 17	1123	13000	12500	27.5	21500	78"	10'5"	8'11"	9'2"	12"	36"	13"	8"	5"	4" 3/4		
C 18	1246	14500	13800	30	23200	78"	10'5"	8'11"	10'2"	12"	36"	13"	8"	5"	4"		
C 19	1362	16000	15200	33	25000	78"	10'5"	8'11"	11'2"	12"	36"	13"	8"	5"	2 @ 3		
C 20	1480	17500	16600	33	26500	78"	10'5"	8'11"	11'2"	12"	36"	13"	8"	5"	2 @ 3		
C 21	1591	19000	18000	35.8	26900	84"	11'2"	9'6"	11'2"	12"	42"	13"	10"	6"	2 @ 3		
C 22	1748	21000	20000	35.8	28700	84"	11'2"	9'6"	12'2"	12"	42"	13"	10"	6"	2 @ 3		
C 23	1903	23000	22000	39	30500	84"	11'2"	9'6"	13'2"	12"	42"	13"	10"	6"	2 @ 3 1/2		
C 24	2060	25000	23800	39	32200	84"	11'2"	9'6"	14'2"	12"	42"	13"	10"	6"	2 @ 3 1/2		

For Hot Water Heating add 66% to Radiation. For Stoker, Gas or Oil Fired Boilers, add 20% to Radiation.  
Full ratings can only be developed if Breeching and Chimney is large enough for the Boiler.